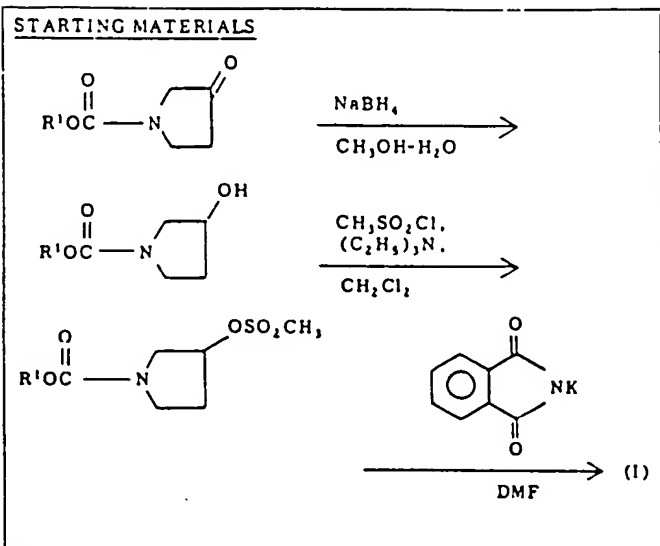


Bu



EXAMPLE

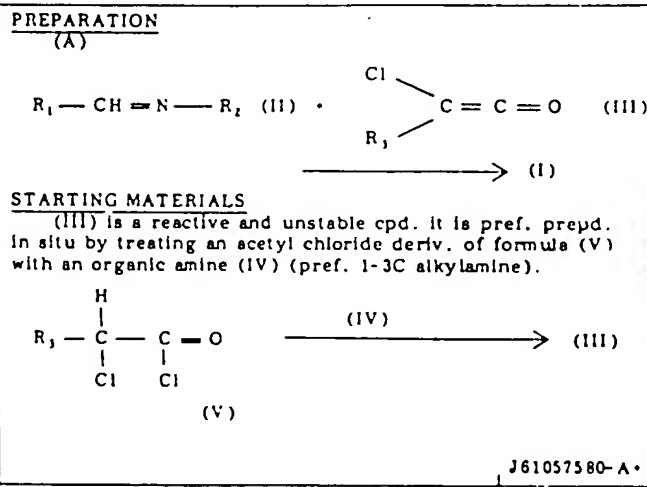
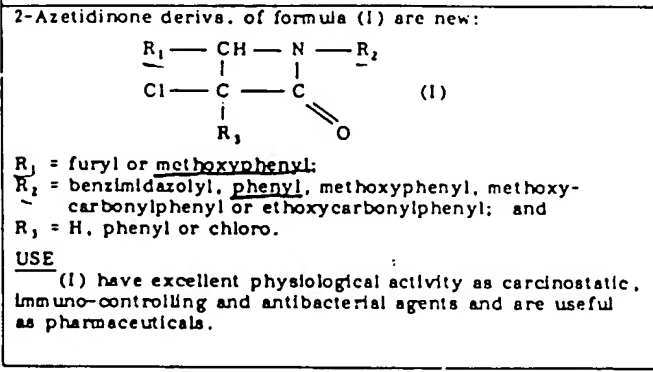
1-ethoxycarbonyl-3-pyrrolidone (100 g) was dissolved in MeOH (300 ml) and a soln. of sodium borohydride (6.02 g) in H₂O (40 ml) was added dropwise at 0°C over 30 mins., then stirred for 15 mins. Conc. HCl (14.3 ml), satd. NaCl soln. (250 ml) and CH₂Cl₂ (300 ml) were added to the reaction mixt. The organic layer was fractionated, washed with satd. aq. NaCl soln. (100 ml), dried over anhydrous MgSO₄, and the solvent was distilled off under reduced press. to give 1-ethoxycarbonyl-3-hydroxypyrrolidone (100 g, 98.7% yield) as an oil.

Followed by prepn. of:
 1-ethoxycarbonyl-3-mesyloxypyrrolidone;
 1-ethoxycarbonyl-3-phthalimidopyrrolidone;
 3-aminopyrrolidine dihydrochloride; and finally
 3-aminopyrrolidine (III).
 (4ppW69WSDwgNo0/0).

J61057579-A

86-116676/18 B03 KANT-29.08.84
 KANTOH ISHI SEIYAKU *J6 1057-580-A
 29.08.84-JP-180212 (24.03.86) A61k-31/39 C07d-205/08 C07d-235
 C07d-403/04 C07d-405/04
 New 2-azetidinone derivs. - with carcinostatic and antibacterial activity
 C86-049841

B(6-D5, 7-D1, 12-A1, 12-D2, 12-G7) 5 30173



EXAMPLE

A soln. contg. chloroacetylchloride in anhydrous benzene (10 ml) was added dropwise to a soln. contg. (II: R_1 = furyl, R_2 = phenyl) (0.01 mol.) and Et₃N (1.52 g, 0.015 mol.) in anhydrous benzene (50 ml) at 5-10°C with stirring. The reaction mixt. was allowed to rise to room temp. and stirred for 2 hrs. The Et₃N.HCl was removed and the solvent distilled off under reduced press. The residue was chromatographed (silica gel; eluent, hexane-EtOAc) (5 : 1 - 50 : 1) to give (I: R_1 = 2-furyl, R_2 = phenyl, R_3 = H). (8ppW69WSDwgNo0/0).

J61057580-A